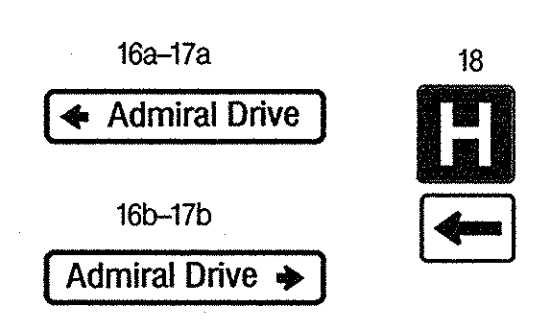


MD 450 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

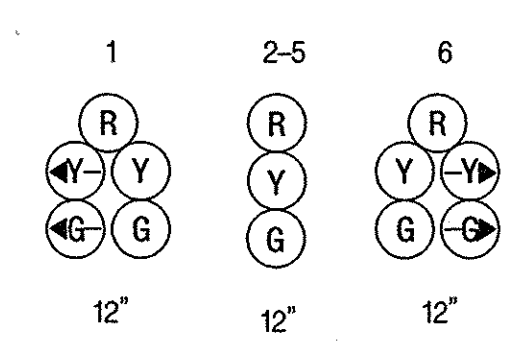
EXISTING SIGNS



EXISTING SIGNS
TO BE REMOVED



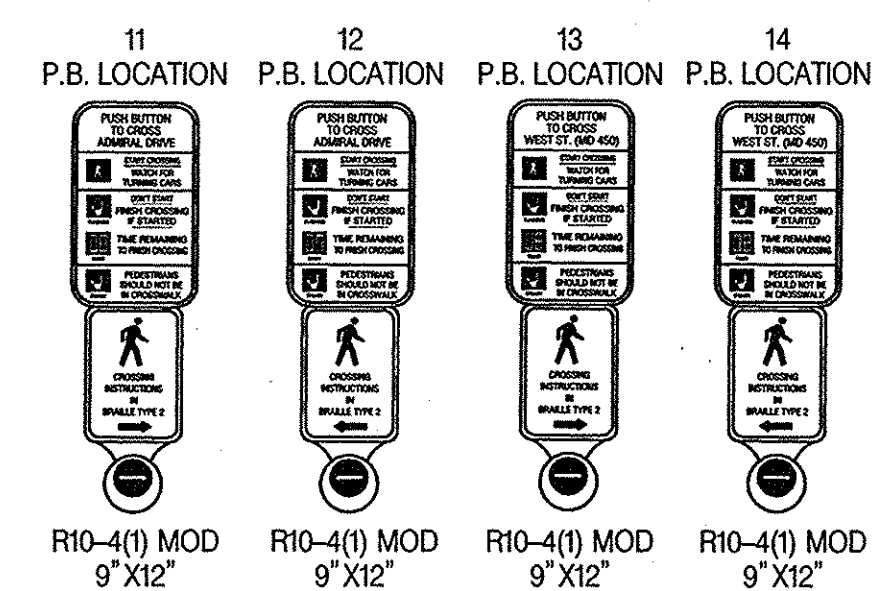
EXISTING SIGNALS



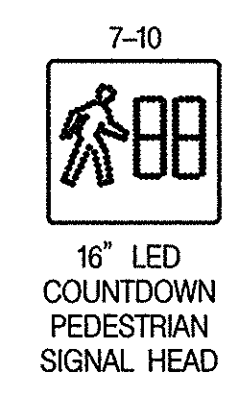
EXISTING SIGNALS
TO BE REMOVED



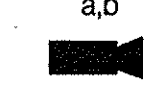
PROPOSED PEDESTRIAN
PUSH BUTTON SYSTEM



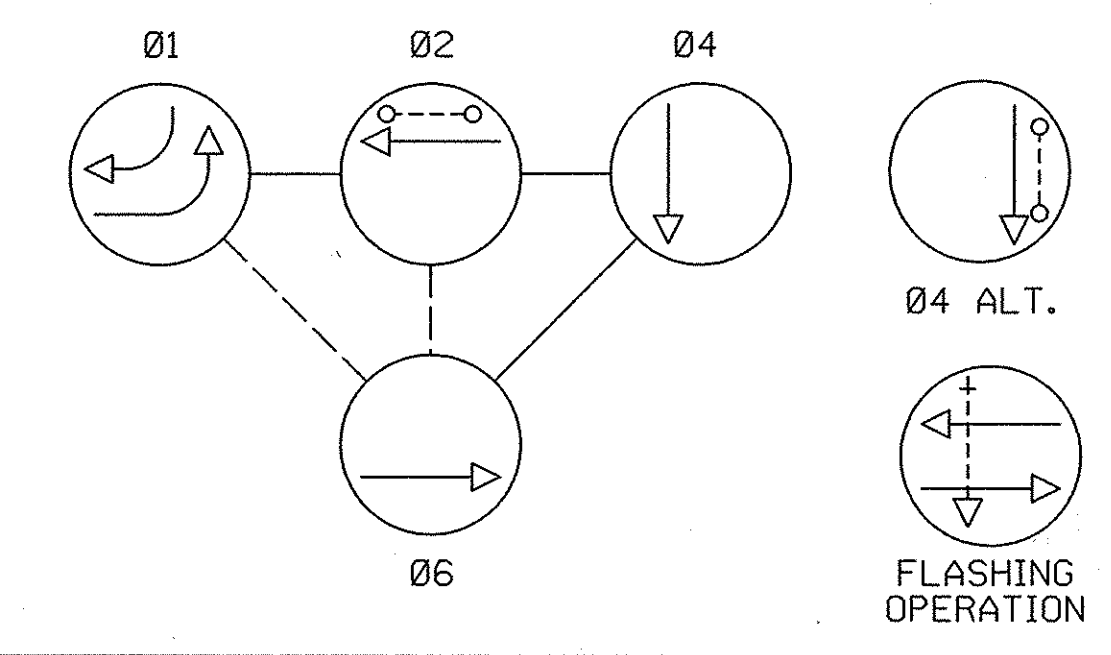
PROPOSED SIGNALS



PROPOSED VIDEO
DETECTION



NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

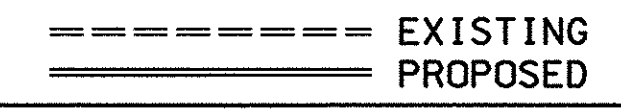
GENERAL NOTES:

- VIDEO CAMERA LOCATION /ALIGNING SHALL BE COORDINATED WITH THE SHA SIGNAL TECHNICIAN.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- THE PAVEMENT MARKINGS SHOWN ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT SIGNAL SHOP (410)787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.

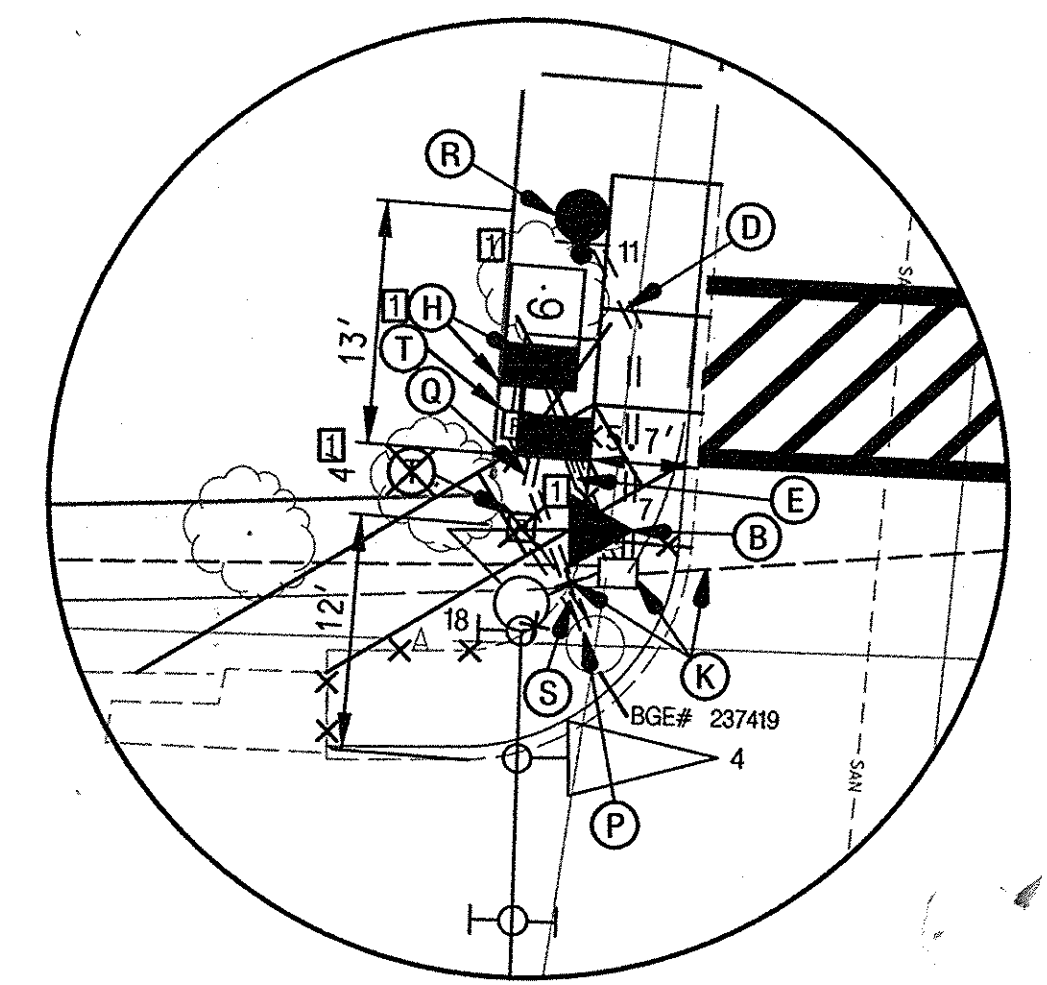
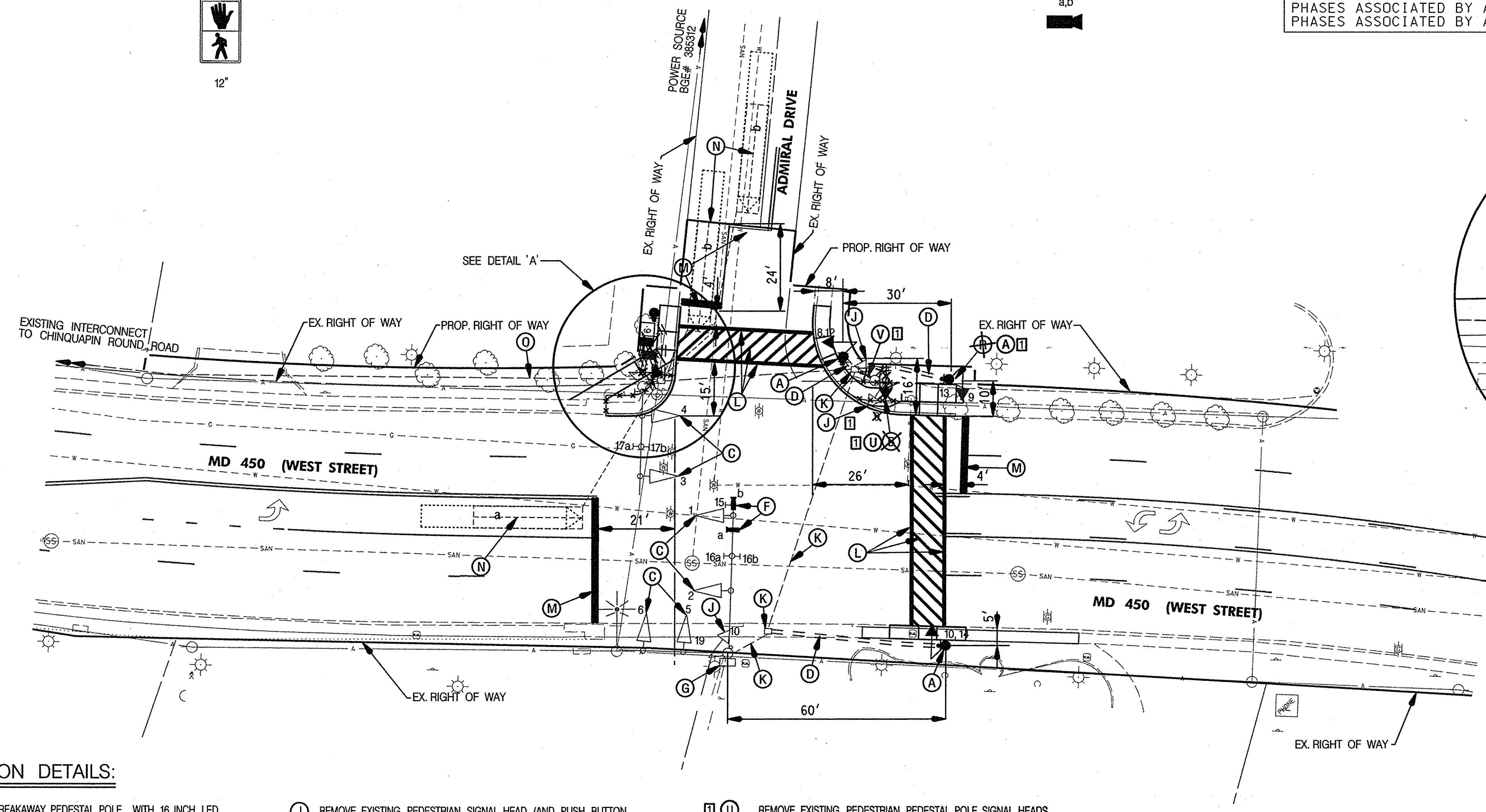
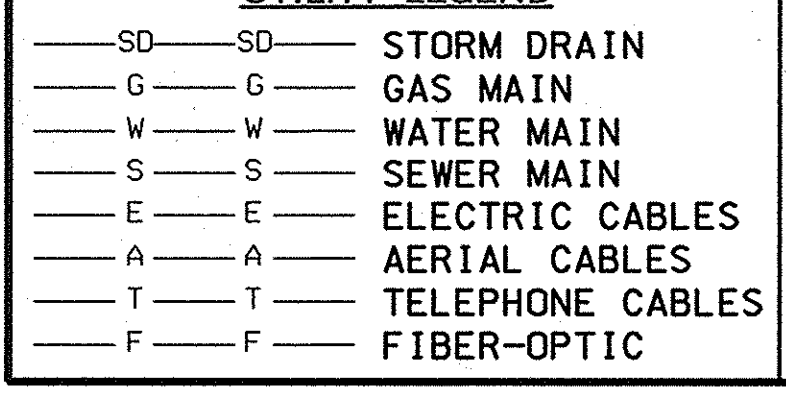
CONSTRUCTION DETAILS:

- (A) INSTALL 10 FOOT BREAKAWAY PEDESTAL POLE WITH 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON INSTALLED WITH VIBRATING ARROW AND R10-4(1) SIGN TO BE READ "PUSHBUTTON TO CROSS WEST ST (MD 450)" OR "PUSHBUTTON TO CROSS ADMIRAL DR". (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (B) REPLACE EXISTING PEDESTRIAN SIGNAL HEAD WITH 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD.
- (C) REWIRE EXISTING SIGNAL HEAD TO NEW CONTROLLER CABINET.
- (D) INSTALL 3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED.
- (E) INSTALL TWO 4 INCH SCHEDULE 80 PVC CONDUITS - TRENCHED.
- (F) INSTALL VIDEO DETECTION CAMERA TO EXISTING MAST ARM.
- (G) REMOVE EXISTING POLE MOUNTED CONTROLLER CABINET AND EQUIPMENT. DISCONNECT AND REMOVE EXISTING OVERHEAD POWER SOURCE FEED.
- (H) INSTALL NEW NEMA SIZE "6" BASE MOUNTED CABINET CONTROLLER WITH CONTROLLER HARDWARE, 2-WIRE CONTROL UNIT FOR AUDIBLE TACTILE PEDESTRIAN PUSH BUTTONS, VIDEO INTERFACE EQUIPMENT, DISCONNECT, AND METER. (NOTE: FOUNDATION SHALL HAVE TWO 2 INCH AND TWO 4 INCH 90 DEGREE CONDUIT ELBOWS).
- (J) REMOVE EXISTING PEDESTRIAN SIGNAL HEAD (AND PUSH BUTTON AND SIGN IF PRESENT).
- (K) MAINTAIN EXISTING HANDHOLE /CONDUIT.
- (L) INSTALL 12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS FOR 10' WIDE CROSSWALK.
- (M) INSTALL 24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS FOR STOP BAR.
- (N) EXISTING LOOP DETECTOR TO BE ABANDONED.
- (O) SEE INTERCONNECT PLAN.
- (P) PROPOSED POWER SOURCE TO BE SUPPLIED BY BGE. INSTALL 4" RISER AND WEATHERHEAD TO EXISTING UTILITY POLE.
- (Q) INSTALL 2 INCH SCHEDULE 80 PVC CONDUIT- TRENCHED.
- (R) INSTALL 4 FOOT BREAKAWAY PEDESTAL POLE (CUT 10 FOOT PEDESTAL POLE TO 4 FEET) WITH NEW AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON. (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (S) INSTALL 4 INCH PVC CONDUIT- TRENCHED, STUB UP TO EXISTING UTILITY POLE BASE.
- (T) INSTALL 200 AMP, 1 PH, 3 WIRE METER SERVICE PEDESTAL.
- (U) REMOVE EXISTING PEDESTRIAN PEDESTAL POLE, SIGNAL HEADS, AND FOUNDATION 12 INCHES BELOW GRADE.
- (V) CAP AND ABANDON EXISTING CONDUIT.

GEOMETRIC LEGEND



UTILITY LEGEND



DETAIL 'A'

REVISION C CONSULTANT

WALLACE, MONTGOMERY & ASSOCIATES, LLP

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APPROVALS

TEAM LEADER: ORIGINAL

ASST. DIR. CHIEF: ON

DIVISION CHIEF: FILE

OFFICE DIRECTOR: FILE

REVISIONS	
1	REPLACE PED SIGNALS W/LED COUNTDOWN & APS. INSTALL VIDEO DETECTION 12/2006 TMS NO. H822 SHA NO. AA4495177
2	REPLACE PED POLE DUE TO WIDENING 04/28/2002 TMS F438 SHA NO. BW996M82
3	MLH TZ MAR DAZ BRK

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 450 (WEST STREET) AT
ADMIRAL DRIVE
ANNAPOLIS, MARYLAND**

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 10/25/1985 CONTRACT NO. BW996M82

DESIGNED BY: ANNE ARUNDEL
DRAWN BY: DAVE A. LOGMILE: 02045010.78
CHECKED BY: DAVE A. T.I.M.S. NO.: H822
F.A.P. NO.: TOD NO.:

DRAWING NO. **TS - 4484C** SHEET NO. 33 OF 37